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Baggage Claim at Austin-Bergstrom International Airport
The HFES Annual Meeting will celebrate its 61st year in Austin, TX from October 9-13. The conference will include 130 concurrent sessions, plus interactive posters and demonstrations, Fellows posters, and the sixth User Experience Day, featuring a dedicated program track.

Workshops will take place on Monday, October 9th. Technical sessions will be held from Tuesday, October 10th through Friday, October 13th.

New this year, the HFES Annual Meeting will feature Plenary Sessions on four days of the conference.

**Tuesday, October 10th, 8:00 to 10:00 am - Opening Plenary Session:** Opening plenary session with keynote speaker

**Wednesday, October 11th, 8:00 to 9:00 am - Morning Plenary Session:** Community Policing in the 21st Century (Hosted by the Board on Human Systems Integration)

**Thursday, October 12th, 8:00 to 9:00 am - Morning Plenary Session:** Human Factors Engineering Can Prevent the Next Major Incident in the Oil and Gas Industry

**Friday, October 13th, 8:00 to 9:00 am - Morning Plenary Session:** Beyond Gamification: From Here to Affinity
The ASTG will hold four sessions through the week:

**AS1: General Aviation Weather: Human Factors Issues and Current Research**
Tuesday, October 10th from 10:30 am—12:00 pm

*Panel session* featuring Y. Ortiz (Embry-Riddle Aeronautical University), B. Bickensderfer (Embry-Riddle Aeronautical University), I. Johnson (Federal Aviation Administration), C. Johnson (University of Wisconsin), B. Caldwell (Purdue University), and D. Beringer (Federal Aviation Administration)

**AS2: Space and Unmanned Vehicles**
Wednesday, October 11th from 2:00 pm—3:30 pm

*Human Factors Review of Space Habitat Feature Requirements* by J. Flores (Texas A&M University), F. Sasangohar (Texas A&M University)

*A Decadal Revisiting of the Assessment of Pilot Control Interfaces for Unmanned Aircraft Systems* by C. Pankok (Drexel University), E. Bass (Drexel University)

*Natural Language-Based Multimodal Interface for UAV Mission Planning* by M. Chandarana (Carnegie Mellon University), E. Meszaros (University of Chicago), A. Trujillo (NASA Langley Research Center), B. Allen (NASA Langley Research Center)

*Sleep Patterns of Crewmembers in Mission IV of the Hawaii Space Exploration Analog and Simulation (HI-SEAS): A Pilot Study* by P. Matsangas (Naval Post Graduate School), N. Shattuck (Naval Post Graduate School), C. Heinicke (Vrije Universiteit), J. Dunn (Purdue University)

*Controlling Multiple Unmanned Aircraft from a Manned Helicopter: The Need for Advanced Autonomy and Refined Pilot-Vehicle Interface* by G. Taylor (U.S. Army Aviation Development Directorate), T. Alicia (U.S. Army Aviation Development Directorate), T. Turpin (U.S. Army Aviation Development Directorate), A. Surana (United Technologies Research Center)
Annual Meeting at a Glance

ASTG Sessions:

AS1: Panel session
Tuesday (10/10) from 10:30 am to 12:00 pm

AS2: Lecture
Wednesday (10/11) from 2:00 pm to 3:30 pm

AS3: Lecture
Thursday (10/12) from 9:15 am to 10:45 am

AS4: Lecture
Thursday (10/12) from 3:45 pm to 5:15 pm

Posters With Fellows:
Wednesday (10/11) from 10:00 am to 11:00 am

ASTG Business Meeting:
Wednesday (10/11) from 5:15 pm to 6:00 pm

AS3: Aviation Displays and Information Presentation
Thursday, October 12th from 9:15 am—10:45 am

Moving-Horizon Versus Moving-Aircraft: Comparing the Effectiveness of Competing Attitude Indicator Formats on Recoveries from Discrete and Continuous Attitude Changes by S. Muller (Technische Universitat Berlin), D. Manzey (Technische Universitat Berlin)

Interactions Between the Design Factors of Airplane Artificial Horizon Displays by D. Ding (Perdue University), R. Proctor (Perdue University)

Visual and Auditory Feedback to Improve Touchscreen Usability in Turbulence by Y. Wan (University of Michigan), J. Prinet (University of Michigan), N. Sarter (University of Michigan)

Assessing General Aviation Pilots’ Interpretation of Weather Products: Traditional and New Automated Generation Products by J. King (Embry-Riddle Aeronautical University), Y. Ortiz (Embry-Riddle Aeronautical University), T. Guinn (Embry-Riddle Aeronautical University), J. Lanicci (Embry-Riddle Aeronautical University), B. Blickensderfer (Embry-Riddle Aeronautical University), R. Thomas (Embry-Riddle Aeronautical University), N. Defilipis (Embry-Riddle Aeronautical University)

The Comparative Benefits and Hazards of Electronic vs. Paper Flight Bags in the Cockpit by J. Sweet (California State University, Long Beach), K. Vu California State University, Long Beach), V. Battiste (San Jose State Foundation/NASA Ames Research Center), T. Strybel California State University, Long Beach)

AS4: Human Factors Issues in Commercial Aviation and Air Traffic Control
Thursday, October 12th from 3:45 pm—5:15 pm

Human-in-the-Loop Simulation Experiment of Integrated Arrival/Departure Control Services for NextGen Operational Improvement by S. Hah (Federal Aviation Administration), B. Wil-
lems (Federal Aviation Administration), G. Mueller (Federal Aviation Administration), D. Johnson (Federal Aviation Administration), K. Schulz (Engility, Inc.), J. DiRico (retired), K. Hallman (Engility, Inc.), H. Maliko-Abraham (T. G. O’Brien & Associates, Inc.), S. Alvidrez (Federal Aviation Administration), R. Bastholm (Engility, Inc.), M Dworsky (Engility, Inc.), T. Fincannon (Engility, Inc.), P. Bassett (Federal Aviation Administration), K. Hailston (Booz Allen Hamilton)

**Human Readiness Assessment: A Multivariate Approach** by A. Garcia (Northrup Grumman Corporation), N. Ganey (Northrup Grumman Corporation), J. Wilbert (Northrup Grumman Corporation)

**Performance of Varied Crew Complement in Commercial Transport Aircraft Operations During Simulated Fuel Leak Off-Nominal Scenario** by K. Kennedy (NASA), L. Kramer (NASA), T. Etherington (Rockwell Collins), R. Bailey (NASA), M. Last (AMA)

**Analysis of Alerting System Failures in Commercial Aircraft Accidents** by R. Mumaw (San Jose State University/NASA)

**Advanced Trajectory Modeling: Stakeholder Needs and Expectations** by G. Hunter (Mosaic ATM, Inc.), B. Holtzman (Mosaic ATM, Inc.), A. Fernandes (Mosaic ATM, Inc.), C. Robinson (Mosaic ATM, Inc.)
In addition to the lecture sessions noted above, members of the Aerospace Technical Group will be presenting their research within the **Posters with Fellows** session. This session will be held on Wednesday, October 11 from 10:00 am until 11:00 am and is a great opportunity to introduce yourself or reconnect with some of your favorite HFES Fellows.

Finally, we hope that you will join your ASTG friends and colleagues at the **Aerospace Systems Technical Group Business Meeting**. The meeting will be held on Wednesday, October 11 from 5:15 pm to 6:00pm. Attending the meeting is a wonderful way to network with representatives from academia, industry, and government and provides an opportunity to learn more about how the technical group is led and functions, to influence how resources are used, to help with future planning, and to get involved in the leadership of the group. And, if that wasn’t enough, there will be delicious snacks and treats to munch on during the meeting.

We hope to see you all at each of the sessions noted above as well as the ASTG business meeting on Wednesday evening!
Upcoming Conferences and Events

While the HFES Annual Meeting is one of our most exciting events of the year, don’t miss these other events and conferences that are planned in the next twelve months:

- **62nd Air Traffic Controllers Association Annual conference and Exposition**: October 15-18, 2017 in National Harbor, MD
- **Commercial UAV Expo Americas**: October 24-26, 2017 in Las Vegas, NV
- **Annual Human Factors and Ergonomics Society of Australia Conference (HFESA 2017)**: October 29-November 1 in Wollongong, Australia
- **Transportation Research Board (TRB) Annual Meeting**: January 7-11, 2018 in Washington, DC
- **World ATM Congress**: March 6-8, 2018 in Madrid, Spain
- **Uber Elevate**: Spring 2018 in Dallas, TX
- **Ergonomics and Human Factors 2018**: April 23-25, 2018 in Birmingham, UK
- **Sun N’ Fun International Fly-In Expo**: April 10-15 in Lakeland, FL
- **AUVSI XPonential**: April 30-May 3 in Denver, CO
- **Aerospace Medical Association 2018 Annual Scientific Meeting**: May 6-10, 2018 in Dallas, TX
- **Air Traffic Controllers Association Tech Symposium**: May 15-17, 2018 in Atlantic City, NJ
- **9th International Conference on Applied Human Factors and Ergonomics**: July 26-28, 2018 in Orlando, FL
- **Third Workshop on Remotely Piloted Aircraft Systems (ICAO)**: August 21-23 in Lima, Peru
- **20th Congress of the International Ergonomics Association**: August 26-30, 2018 in Florence, Italy
- **Communicating for Safety**: October 22-24, 2018 in Las Vegas, NV
Did you know HFES is on social media?
Join us there and stay connected!

@HFES
HFESociety
Human Factors and Ergonomics Society

Staying Connected

Top Tweets

In the last newsletter, we noted that you can stay connected with HFES and its members through twitter (@HFES), facebook (@HFESociety) and Linked In (Human Factors and Ergonomics Society). If you haven’t started following HFES in these social media sites, you’re missing out.

Just a few days ago, there was a tweet highlighting an post that discusses the potential reality of flying cars in an on-demand transportation environment.

There was also a tweet in late August about the five ground-breaking technologies that will shape the future operational environments, user roles and tasks, and the way we can help as human factors engineers.

To stay on top of the latest news, technology trends, and opportunities for using our human factors and ergonomics skill sets in the future, get connected!
Mystery Craft

Our last Mystery Craft was identified by many observant readers as a Lockheed 1049 Super Constellation. Kudos goes to Dennis Beringer, Brian Ostermann, Kathy Mosier, Chad Beiber, Earl Stein, and Diane Damos for the quickly and correctly identifying the mystery craft!

The New Mystery Craft

Now it's time for the new mystery craft! Think you know what aircraft is shown in the picture below? If you have a guess, please email Emily Stelzer (estelzer@mitre.org) and put “ASTG Craft Trivia” in the subject line!
Mystery Tower

This mystery tower is the Alliance Airport air traffic control tower, located north of Fort Worth, TX. It’s featured in the *Art of the Airport Tower* by Carolyn J. Russo. Kudos goes to Linda Pierce for identifying this tower!

The New Mystery Tower

Finally, we have a tricky mystery air traffic control tower for you in the picture below. If you have a guess, please email Emily Stelzer (estelzer@mitre.org) and put “ASTG Tower Trivia” in the subject line!